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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/511,211	10/13/2004	Arougg Jbira	GB 020047	2129	
24737 75	590 10/05/2006		EXAM	INER	
PHILIPS INT	PHILIPS INTELLECTUAL PROPERTY & STANDARDS		RIVERO, MINERVA		
P.O. BOX 3001	MANOR, NY 10510		ART UNIT	PAPER NUMBER	
DRIMCEII I			2627		
	•		DATE MAILED: 10/05/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	0.	Applicant(s)	
Office Action Summary		10/511,211		JBIRA, AROUGG	
		Examiner		Art Unit	
	• •	Minerva Rivero)	2627	
The MAILING DATE of	of this communication	appears on the cov	er sheet with the	e correspondence address	
WHICHEVER IS LONGER, Extensions of time may be available after SIX (6) MONTHS from the mail	FROM THE MAILING under the provisions of 37 CF ing date of this communication ove, the maximum statutory pended period for reply will, by sor than three months after the results.	G DATE OF THIS (R 1.136(a). In no event, ho n. eriod will apply and will expi tatute, cause the application	COMMUNICATION COMMUN	timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).	
tatus					
1) Responsive to comm	unication(s) filed on 1	12 July 2006.	•		
2a) ☑ This action is FINAL.		This action is non-f	inal.		
· -	•			prosecution as to the merits is	
closed in accordance		•	•	•	
. *	, p. 1. 3. 3. 4.	,////			
Disposition of Claims	•	•			
4)⊠ Claim(s) <u>1-7</u> is/are pe	nding in the applicati	on.			
4a) Of the above clain	n(s) <u>1-5</u> is/are withdra	awn from considera	tion.		
5) Claim(s) 7 is/are allow	ved.	•			
6)⊠ Claim(s) <u>6</u> is/are reject	cted.	•			
7) Claim(s) is/are	objected to.	•		*	
8) Claim(s) are su	ubject to restriction a	nd/or election requi	rement.		
application Papers					
9)☐ The specification is ob	jected to by the Exar	niner.	•		
10)⊠ The drawing(s) filed o	n <u>12 July 2006</u> is/are:	a) accepted or	b) objected to	o by the Examiner.	
Applicant may not reque	est that any objection to	the drawing(s) be he	ld in abeyance. S	See 37 CFR 1.85(a).	
Replacement drawing s	heet(s) including the co	rrection is required if	the drawing(s) is	objected to. See 37 CFR 1.121(d)	
11)☐ The oath or declaratio	n is objected to by th	e Examiner. Note tl	he attached Offi	ce Action or form PTO-152.	
riority under 35 U.S.C. § 119		•			
12) Acknowledgment is m	•	eign priority under 3	35 U.S.C. § 119	(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c	•				
	of the priority docun				
2. Certified copies			• •		
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* See the attached detail	ed Office action for a	list of the certified	copies not recei	ved.	
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DETAILED ACTION

1. In the Remarks submitted 7/12/06, Applicants cancelled claims 1-5 and added claims 6 and 7.

Allowable Subject Matter

Claim 7 is allowed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dahan et al. (U.S. Patent 6,137,763) in view of "Algorithm for Managing Multiple First-In, First-Out Queues From a Single Shared Random-Access Memory" (IBM Technical Disclosure Bulletin, Vol. 32, no. 3B).

Regarding claim 6, Dahan *et al.* disclose a multitrack optical disc reader (Fig. 1, element 10) comprising a multitrack optical pick up (Fig. 1, element 11) for reading

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data from multiple tracks of an optical disc and outputting the data from each track in respective data streams (Col. 5, lines 38 and 39); and a memory bank (Fig. 1, element 30) in which first-in-first-out (FIFO) buffers for temporarily storing data from the respective data streams may be dynamically defined (Col. 5, lines 47-52; data sequentially transferred, as in a queue);

which is able to use less than the maximum number of tracks that can be read by the pickup (Fig. 4B, step 473);

and when less than the maximum possible number of tracks that can be read by the pickup are being used, only FIFO buffers for data streams for those tracks used are defined (Fig. 4B, step 415).

However, Dahan et al. fail to disclose a disc reader wherein, at least one of the FIFO buffers is defined to have a size greater than the total FIFO memory that can be defined in the memory bank divided by the maximum number of tracks that can be read by the pickup.

The IBM Technical Disclosure Bulletin discloses a disc reader wherein, at least one of the FIFO buffers is defined to have a size greater than the total FIFO memory that can be defined in the memory bank divided by the maximum number of tracks that can be read by the pickup (Pg. 489; The shared RAM consists of multiple FIFO queues. The collection of unoccupied cells is treated as an extra FIFO queue. The size of the extra FIFO queue is greater than the total RAM size when the unoccupied cells do not correspond to a FIFO of an individual track.)

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Dahan *et al.* with a buffer RAM of the IBM Technical Disclosure to obtain an apparatus in which the memory is fully shared among queues.

Motivation for the above combination is to achieve memory bank that does not require the use of a 'garbage collection' (see Page. 489 of the IBM Technical Disclosure).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minerva Rivero whose telephone number is (571) 272-7626. The examiner can normally be reached on Monday-Friday 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MR 9/30/06

SUPERVISORY PATENT EXAMINER